



Thursday, January 21, 2021

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCH47847
Sample ID#s: CH47847 - CH47848

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

January 21, 2021

SDG I.D.: GCH47847

Project ID: GULF CHELSEA TERMINAL 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CH47847	SW DISCHARGE
TRIP BLANK	CH47848	SW DISCHARGE



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Analysis Report

January 21, 2021

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

01/15/21 16:00
01/18/21 14:25

Time

Laboratory Data

SDG ID: GCH47847
Phoenix ID: CH47847

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	01/19/21	MSF	EPA 1664
pH	7.68	1.00	pH Units	1	01/18/21 20:46	AP/EG	SM4500-H B-11
Total Suspended Solids	< 3.3	3.3	mg/L	0.7	01/19/21	LS	SM 2540D-11
Semi-Volatile Extraction	Completed				01/18/21	P/CG	SW3520C

Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	01/18/21	MH	E624.1
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	01/18/21	MH	E624.1
Napthalene	ND	1.0	ug/L	1	01/18/21	MH	E624.1

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	103		%	1	01/18/21	MH	70 - 130 %
% Bromofluorobenzene	92		%	1	01/18/21	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	01/18/21	MH	70 - 130 %
% Toluene-d8	98		%	1	01/18/21	MH	70 - 130 %

Ethanol	ND	400	ug/L	1	01/18/21	MH	E624.1
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Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.02	ug/L	1	01/19/21	WB	E625.1
Napthalene	ND	0.10	ug/L	1	01/19/21	WB	E625.1

QA/QC Surrogates

% 2-Fluorobiphenyl	61		%	1	01/19/21	WB	40 - 140 %
% Nitrobenzene-d5	74		%	1	01/19/21	WB	40 - 140 %
% Terphenyl-d14	81		%	1	01/19/21	WB	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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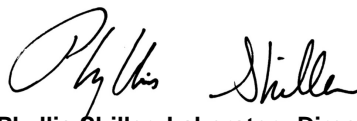
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director

January 21, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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Analysis Report

January 21, 2021

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

01/15/21

Time

14:25

Laboratory Data

SDG ID: GCH47847
Phoenix ID: CH47848

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	01/18/21	MH	E624.1
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	01/18/21	MH	E624.1
Napthalene	ND	1.0	ug/L	1	01/18/21	MH	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	01/18/21	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	01/18/21	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	01/18/21	MH	70 - 130 %
% Toluene-d8	99		%	1	01/18/21	MH	70 - 130 %
Ethanol	ND	400	ug/L	1	01/18/21	MH	E624.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

January 21, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

January 21, 2021

QA/QC Data

SDG I.D.: GCH47847

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 560543 (mg/L), QC Sample No: CH47397 (CH47847)													
Total Suspended Solids	BRL	2.5	<3.3	<3.3	NC	93.0						85 - 115	
QA/QC Batch 560539 (mg/L), QC Sample No: CH47706 (CH47847)													
Oil and Grease by EPA 1664A	BRL	1.4				99.0	96.0	3.1				85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 560583 (pH), QC Sample No: CH47736 (CH47847)													
pH			7.40	7.42	0.30	98.4						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													



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QA/QC Report

January 21, 2021

QA/QC Data

SDG I.D.: GCH47847

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 560510 (ug/L), QC Sample No: CH47787 (CH47847)										
<u>Semivolatiles by SIM, PAH</u>										
Benzo(a)pyrene	ND	0.02	58	86	38.9				40 - 140	20 r
Naphthalene	ND	0.50	56	56	0.0				40 - 140	20
% 2-Fluorobiphenyl	63	%	66	66	0.0				40 - 140	20
% Nitrobenzene-d5	65	%	68	68	0.0				40 - 140	20
% Terphenyl-d14	102	%	86	96	11.0				40 - 140	20

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 560570 (ug/L), QC Sample No: CH47848 (CH47847, CH47848)

Volatiles

Benzene	ND	0.70	91	88	3.4	86	87	1.2	65 - 135	20
Methyl t-butyl ether (MTBE)	ND	1.0	116	114	1.7	108	111	2.7	70 - 130	30
Naphthalene	ND	1.0	102	105	2.9	91	96	5.3	70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	99	99	0.0	99	97	2.0	70 - 130	30
% Bromofluorobenzene	91	%	99	100	1.0	99	98	1.0	70 - 130	30
% Dibromofluoromethane	107	%	97	100	3.0	98	102	4.0	70 - 130	30
% Toluene-d8	97	%	98	98	0.0	98	97	1.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 560568 (ug/L), QC Sample No: CH47848 (CH47847, CH47848)

Oxygenates

Ethanol	ND	200	99	116	15.8	114	112	1.8	70 - 130	30
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Comment:

A blank MS/MSD was analyzed with this batch.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample


LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
January 21, 2021

Thursday, January 21, 2021

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCH47847 - AECOME-GULF

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

January 21, 2021

SDG I.D.: GCH47847

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

VOA-OXY Narration

CHEM23 01/18/21-2: CH47847, CH47848

The following Initial Calibration compounds did not meet RSD% criteria: Ethanol 40% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: AECOM

Address: 250 Apollo Drive

Chelmsford, MA 01824

Jennifer Atkins

Project: Gulf Chelsea Terminal / 60597375-0500

Report to: Jennifer Atkins

Invoice to: AECOM

QUOTE # AE012319RM

Project P.O.: 112185

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Signature: *[Signature]* Date: 1-15-21

Matrix Code:
GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
47847	Outfall 003	SW	1-15-21	1600
47848	Trip Blank 1 & 2			

Analysis Request

PH TSS O&G #AECOM624-QRT 1 Ethanol 1 MTBE #AECOM625PAH

GL Amber 8 oz. w/3-PO4
GL Soil container () oz
GL Soil container () oz
GL Amber 100ml Vial () oz
PL As is (x) 250ml (x) 500ml (x) 1000ml
PL H2SO4 (x) 250ml (x) 500ml (x) 1000ml
PL HNO3 250ml
Bacteria Bottle with
Bacteria Bottle as is

Relinquished by: *[Signature]*

Accepted by: *[Signature]*

Date: 1-18-21

Time: 11:48

RI Direct Exposure (Residential)

GW

CT RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

IC DEC

Other

MA MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Data Format

Excel

PDF

GIS/Key

EQUS

Other

Comments, Special Requirements or Regulations:

Please include Ethanol & MTBE in analysis.

Please run TSS sample for 3 day Turnaround.

Turnaround:
1 Day*
2 Days*
3 Days*
Standard
Other

See notes for TSS.

* SURCHARGE APPLIES

State where samples were collected: MA

* SURCHARGE APPLIES